

APPENDIX 1

18. A toner for developing an electrostatically charged copier or printer image, the toner consisting essentially of:

- a) a binder resin;
- b) a colorant; and
- c) a charge control agent,

the binder resin further comprises a polyolefin resin having a cyclic structure having :

(i) a low-viscosity resin with a number average molecular weight (Mn) of 1000 to 7500 and a weight average molecular weight (Mw) of 1,000 to 15,000, as measured by GPC, an intrinsic viscosity (i.v.) of less than 0.25 dl/g, and a heat distortion temperature (HDT) by DIN53461-B (January 1987) of lower than 70°C; and

(ii) a high-viscosity resin having a number average molecular weight of at least 7,500 and a weight average molecular weight of at least 15,000, as measured by GPC, an i.v. of 0.25 dl/g or more, and an HDT of 70°C or higher;

wherein the polyolefin resin is a copolymer derived from an alpha-olefin, an alicyclic compound having a double bond and, optionally, a diene monomer, and wherein the electrostatically charged copier or printer image is fixed using a heat roller fixing means.

18. A toner for developing an electrostatically charged copier or printer image, the toner consisting essentially of:

- d) a binder resin;
- e) a colorant; and
- f) a charge control agent,

the binder resin further comprises a polyolefin resin having a cyclic structure having :

62 (i) a low-viscosity resin having a number average molecular weight (Mn) of 3,000 to 7,500 and a weight average molecular weight (Mw) of 4,000 to 15,000, as measured by GPC, an intrinsic viscosity (i.v.) of less than 0.25 dl/g, and a heat distortion temperature (HDT) by DIN53461-B (January 1987) of lower than 70°C; and

(ii) a high-viscosity resin having a number average molecular weight of 7,500 to 50,000 and a weight average molecular weight of 15,000 to 100,000, as measured by GPC, an i.v. of 0.25 dl/g or more, and an HDT of 70°C or higher;

wherein the polyolefin resin is a copolymer derived from an alpha-olefin, an alicyclic compound having a double bond and, optionally, a diene monomer, and wherein the electrostatically charged copier or printer image is fixed using a heat roller fixing means.

19. The toner according to claims 17 or 18, wherein said low-viscosity resin has a Mw/Mn ratio from 1 to 2.5.

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63 23. The toner according to claims 16, 17 or 18, wherein the binder resin includes said polyolefin resin with a cyclic structure having an intrinsic viscosity (i.v.) of 0.25 dl/g or more, a heat distortion temperature (HDT) by DIN53461-B (January 1987) of 70°C or higher, and a number average molecular weight of 7,500 or more and a weight average molecular weight of 15,000 or more, as measured by GPC, which is contained in a proportion of not more than 50% by weight based on the entire binder resin.

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